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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/631,154	07/31/2003	Matthew Krokosz	449/118	2229

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EXAMINER
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PANNALA, SATHYANARAYA R

ART UNIT	PAPER NUMBER
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2164

DATE MAILED: 09/13/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

10/631,154

Applicant(s)

KROKOSZ, MATTHEW

Examiner

Sathyanarayan Pannala

Art Unit

2164

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 19 June 2006.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-26 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-26 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                       | 5) <input type="checkbox"/> Notice of Informal Patent Application                       |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

### **DETAILED ACTION**

1. Application No. 10/631154 filed on 7/31/2003 has been examined. In this Office Action, claims 1-26 are pending.

#### ***Claim Rejections - 35 USC § 101***

2. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

3. Claims 1-24 are rejected under 35 U.S.C. § 101, because none of the claims are directed to statutory subject matter. Independent claim 1 deals with simple abstract idea. A claim that recites a computer that solely calculates a mathematical formula or a computer disk that solely stores a mathematical formula is not directed to the type of statutory subject matter eligible for patent protection. The claims are not producing useful, concrete and tangible results. See *Diehr*, 450 U.S. at 186 and *Gottschalk v. Benson*, 409 U.S. 63, 71-72 (1972).

***Claim Rejections - 35 USC § 102***

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

5. Claims 1-26 are rejected under 35 U.S.C. 102(e) as being anticipated by Yau (US Patent 6,741,688) hereinafter Yau.

6. As per independent claim 1, Yau teaches an electronic method for handling telephone calls includes a telephone number template. The template preferably is as wide as a telephone number is long and identifies one or more telephone number digits by the digit positions within a telephone number field for comparison purposes (col. 1, line 66 to col. 2, line 4). Yau teaches the claimed, specifying one or more records and also moving on to check a next level, wherein at least one telephone call is routed to a destination based on said indexing technique (Fig. 2, col. 3, line 57 to col. 4, line 36 and col. 4, lines 21-27).

7. As per dependent claim 2, Yau teaches the claimed, each of said keys represents a group of telephone numbers (Fig. 2, col.4, lines 5-7).
8. As per dependent claim 3, Yau teaches the claimed, each of said keys is a specified portion of each telephone number of said group (Fig. 2, col. 4, lines 37-38).
9. As per dependent claim 4, Yau teaches the claimed, said specified portion is a starting portion of said each telephone number of said group (Fig. 2, col. 4, lines 37-38).
10. As per dependent claim 5, wherein said starting portion comprises one or more digits (Fig. 2, col. 4, lines 37-38).
11. As per dependent claim 6, Yau teaches the claimed, records are call processing instructions (Fig. 2, col. 4, lines 5-5).
12. As per dependent claim 7, Yau teaches the claimed, call processing instructions are routing instructions (col. 2, lines 44-48).
13. As per dependent claim 8, Yau teaches the claimed, constituent elements are alphanumeric characters (Fig. 2, col. 4, lines 18-20).

14. As per dependent claim 9, Yau teaches the claimed, each of said keys represents a group of data entries of said database (Fig. 2, col. 3, lines 57-61 and col. 4, lines 30-33).

15. As per dependent claim 10, Yau teaches the claimed, each of said records is a destination assigned to said group represented by said each key (Fig. 2, col. 4, lines 21-23).

16. As per dependent claim 11, Yau teaches the claimed, a sequence of said plural levels corresponds to a sequence of said digits in said data strings (Fig. 2, col. 4, lines 23-27).

17. As per dependent claim 12, Yau teaches the claimed, sequence of the digits is a natural order of the digits in the data string (Fig. 2, col. 4, line 65-67).

18. As per dependent claim 13, Yau teaches the claimed, a first level represents a first digit, a second level represents a second digit, a third level represents a third digit, and so forth (Fig. 2, col. 5, lines 57-61).

19. As per dependent claim 14, Yau teaches the claimed, sequence of the digits is determined by a specified priority of each digit in the data string (Fig. 2, col. 6, lines 52-61).

20. As per dependent claim 15, Yau teaches the claimed, a first level represents a digit of a highest priority, a second level represents a digit of a secondly highest priority, a third level represents a digit of a thirdly highest priority, and so forth (Fig. 2, col. 5, lines 57-61).

21. As per dependent claim 16, Yau teaches the claimed, data string query comprising a string of constituent elements each taking one digit in the string, said method comprising the steps of: starting at a first level of said database, checking for an instruction for each said constituent element of said data string query at each digit represented by each level and moving on to check a next level until said instruction found at a lastly checked level does not include an sub-instruction of moving on to check a next level and if said instruction found at said lastly checked level specifies one or more records, returning said specified records to said data string query, otherwise backing up one level at a time until an instruction specifying one or more records is found, and returning said specified one or more records to said data string query. This claim is rejected under the same rationale as claim 1.

22. As per dependent claim 17, Yau teaches the claimed, data string query is a telephone number. This claim is rejected under the same rationale as claim 2.

23. As per dependent claim 18, Yau teaches the claimed, records are call processing

instructions. This claim is rejected under the same rationale as claim 6.

24. As per dependent claim 19, Yau teaches the claimed, call processing instructions are routing instructions to route a call associated with said telephone number. This claim is rejected under the same rationale as claim 7.

25. As per dependent claim 20, Yau teaches the claimed, levels are checked in a sequence corresponding to a sequence of said digits in said data string query. This claim is rejected under the same rationale as claim 11.

26. As per dependent claim 21, Yau teaches the claimed, sequence of the digits is a natural order of the digits in the data string query. This claim is rejected under the same rationale as claim 12.

27. As per dependent claim 22, Yau teaches the claimed, sequence of the digits is determined by a specified priority of each digit in the data string query. This claim is rejected under the same rationale as claim 14.

28. As per dependent claim 23, Yau teaches the claimed, constituent elements of the data string query are alphanumeric characters. This claim is rejected under the same rationale as claim 8.

29. As per dependent claim 24, Yau teaches the claimed, implemented as a recursive algorithm computer program (Fig. 1, col. 8, lines 41-52).

30. As per independent claim 25, a method of looking up records for a data string query in a database indexed said data string query comprising a string of constituent elements each taking one digit in the string, said method comprising the steps of, starting at a first level of a multilevel data structure, checking for an instruction for each said constituent element of said data string at each digit represented by each level and moving on to check a next level until an instruction found at a last checked level does not include a sub-instruction to check a next level and if said instruction found at said last checked level specifies one or more records, returning said specified one or more records to said data string query, otherwise backing up one level at a time until a level with records to be returned is found and returning all routing records encountered in all levels in either the order encountered or in reverse order. This claim is rejected under the same rationale as claim 16.

31. As per dependent claim 26, Yau teaches the claimed, implemented as a recursive algorithm (Fig. 1, col. 8, lines 41-52).

### ***Response to Arguments***

32. Applicant's arguments filed on 6/19/2006 have been fully considered but they are not persuasive and details as follows:

a) Applicant's argument stated as "Yau does not disclose any instruction for a digit that includes both specifying one ore more records and also moving on to check a next level or digit."

In response to Applicant's argument, Examiner disagrees, You teaches the limitation to checks digit by digit until result is concluded as well as two level logic device for screening telephone numbers monitored by telephone line monitor to determine how telephone call should be handled by screening processor (Fig. 2, col. 3, line 57 to col. 4, line 36 and col. 4, lines 21-27).


Applicant's arguments do not comply with 37 CFR 1.111(c) because they do not clearly point out the patentable novelty which he or she thinks the claims present in view of the state of the art disclosed by the references cited or the objections made. Further, they do not show how the amendments avoid such references or objections.

### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sathyanarayan Pannala whose telephone number is (571) 272-4115. The examiner can normally be reached on 8:00 am - 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Charles Rones can be reached on (571) 272-4085. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

  
Sathyanarayan Pannala  
Examiner  
Art Unit 2164

srp  
September 11, 2006